



FLSIC



**Ready. Resourceful.
Responsive!**

**MATT MULLINS
CDR, USN
4-5 MAR 2004**

Outline



Outline

- **Background/Overview**
- **AIT Implementation/Requirements**
- **Warranty Data**
 - **Today's Guidance**
 - **What's Available**
 - **What's Planned**
- **Capitalizing on UID**



How SNT Got Started



Background/Overview

Aviation Maintenance-Supply Readiness (AMSR) Review - 1998

Challenge:



 **Lower Maintenance & Supply Cost** 

 **Increase Readiness**



Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)

Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

Major Benefits

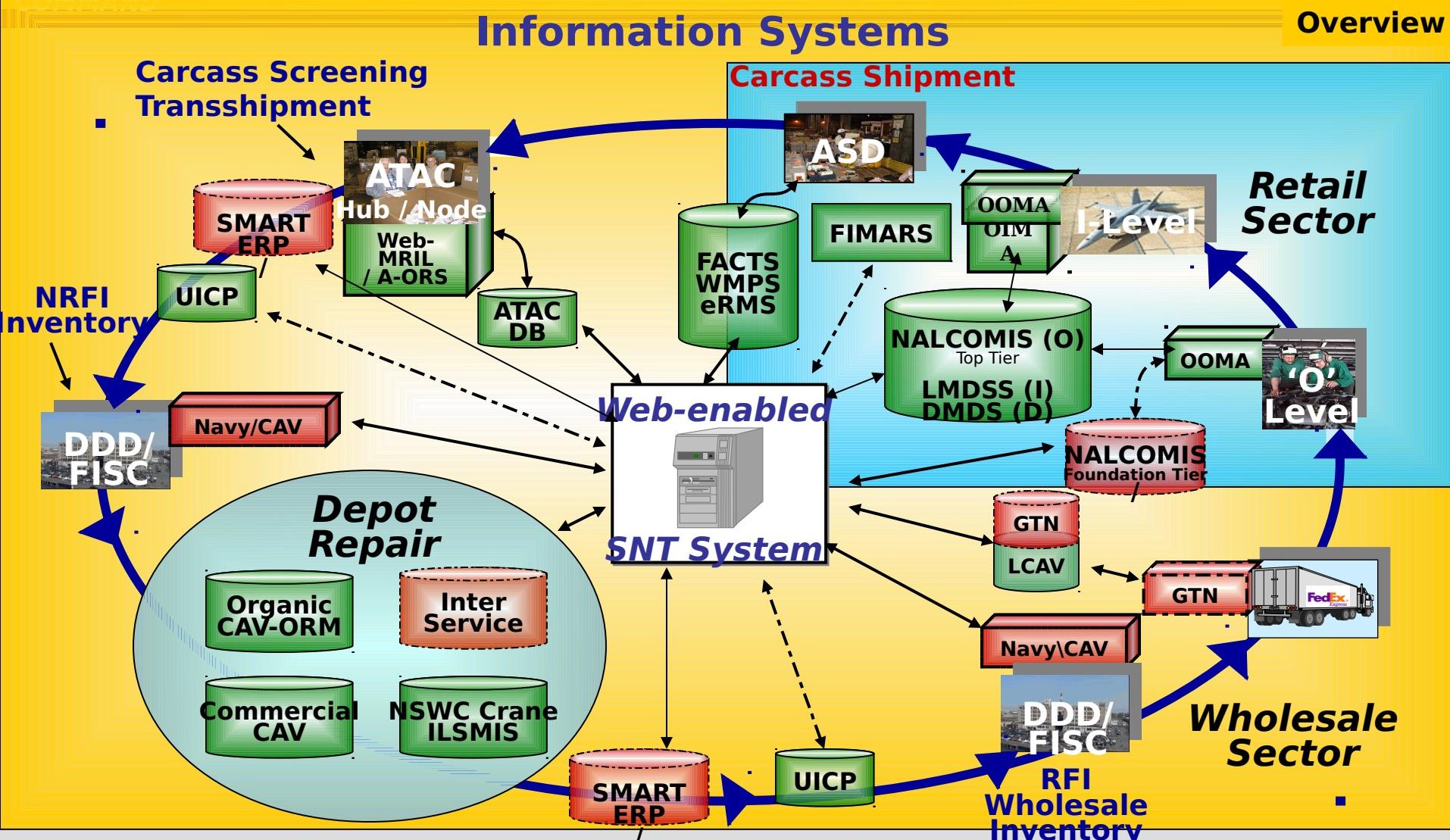
Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Determine Training Requirements
- Assist Engineering Investigations



Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Losses
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility



SNT Foundation



Implementation

SNT requires
two
components

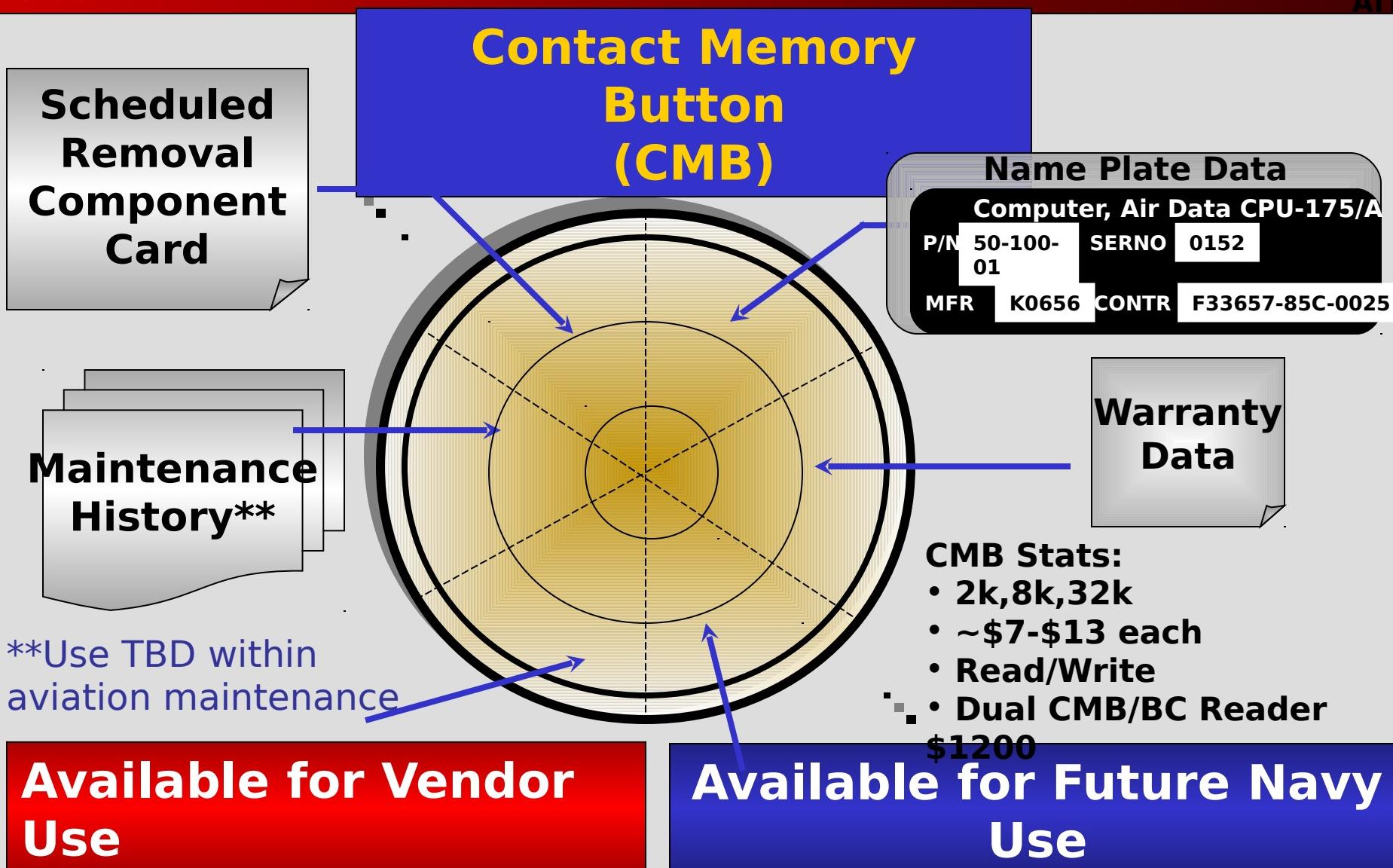
FIRST
Live
access
to
databases
via the
SNT Web-
enabled
portal.

Data Base Access
WMRIL/A-ORS
eRMS/WMPS
UICP
WEB-CAV
CAV-ORM
CAV-Navy
FACTS
OOMA/OIMA
R-Supply
IBS

AIT

CMB
2D Data matrix
PDF417 2D
ISO15418/15
434
MIL-STD-129
MIL-STD-130
MSL
IRRD

SECOND
Automatic
Identification
Technology
(AIT) is used
by SNT to
maintain data
accuracy.





Supply - Aviation 5 Year CMB Plan



AIT - Aviation
Rollout

T/M/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	\$152,783.25	\$272,412.00	\$136,000.00	\$605,932.55
CH-53E	164	170	34,850	\$544,705.50	\$817,236.00	\$136,000.00	\$1,597,820.10
CH-53D	44	104	5,720	\$89,403.60	\$272,412.00	\$83,200.00	\$486,995.50
CH-60	312	300	128,250	\$2,004,547.50	\$3,268,944.00	\$240,000.00	\$5,665,423.90
CH-46	311	400	55,500	\$867,465.00	\$708,271.00	\$320,000.00	\$1,712,510.98
F6A/P	15	469	9,380	\$146,609.40	\$163,447.00	\$375,200.00	\$541,247.00
CH-46E	94	196	47,530	\$742,893.90	\$898,959.00	\$156,800.00	\$1,757,972.50
CH-46F	26	132	20,790	\$324,947.70	\$599,306.00	\$105,600.00	\$1,005,151.96
CH-46G	30	70	20,125	\$314,553.75	\$926,200.00	\$56,000.00	\$1,383,946.57
CH-46H	79	70	6,913	\$108,042.38	\$435,859.26	\$56,000.00	\$609,546.56
EA-6B	124	144	22,320	\$348,861.60	\$1,035,165.60	\$115,200.00	\$1,659,479.94
MHCV/HV-2	458	203	116,218	\$1,816,479.53	\$3,922,732.80	\$162,400.00	\$6,254,390.39
AV-8	172	921	198,015	\$3,094,974.45	\$871,718.40	\$736,800.00	\$4,899,087.53
F-14A/B/D	193	200	48,250	\$754,147.50	\$871,718.40	\$160,000.00	\$1,940,564.86
P-3's	264	75	24,750	\$386,842.50	\$1,797,919.20	\$60,000.00	\$2,452,987.68
Cargo	295	175	64,531	\$1,008,623.44	\$2,724,120.00	\$140,000.00	\$4,297,527.69
Trainers	515	129	83,044	\$1,297,973.81	\$817,236.00	\$103,200.00	\$2,389,150.46
E-2C	75	145	13,594	\$212,470.31	\$1,525,507.20	\$116,000.00	\$1,963,874.10
C-2A	38	145	6,888	\$107,651.63	\$217,929.60	\$116,000.00	\$455,500.85
F-18ABCD	745	200	186,250	\$2,911,087.50	\$4,794,451.20	\$160,000.00	\$8,327,383.34
F-18EF	548	240	164,400	\$2,569,572.00	\$2,179,296.00	\$192,000.00	\$5,445,021.20
Misc Support							\$2,815,000.00
Total			1,267,091	\$19,804,636.24	\$29,120,842.80	\$3,726,400.00	\$58,211,345.83

Total # of
Items marked
1,267,091

SNT Implementation
Cost = \$58,211,346



**NAVAL SUPPLY SYSTEMS
COMMAND**

Contracts



Package marking

	<p>Cage: 02059 PN: 102770-351 Ser: 6694 NSN 7025011415888 CONT: N00104-98-T-0023 Name: Magnetic Tape U/I: EA QTY: 1</p>
MIL-STD-129 PDF417 2D ISO 15418 / 15434	

Product Marking



Nameplate Data



**2D
Data
Matrix**

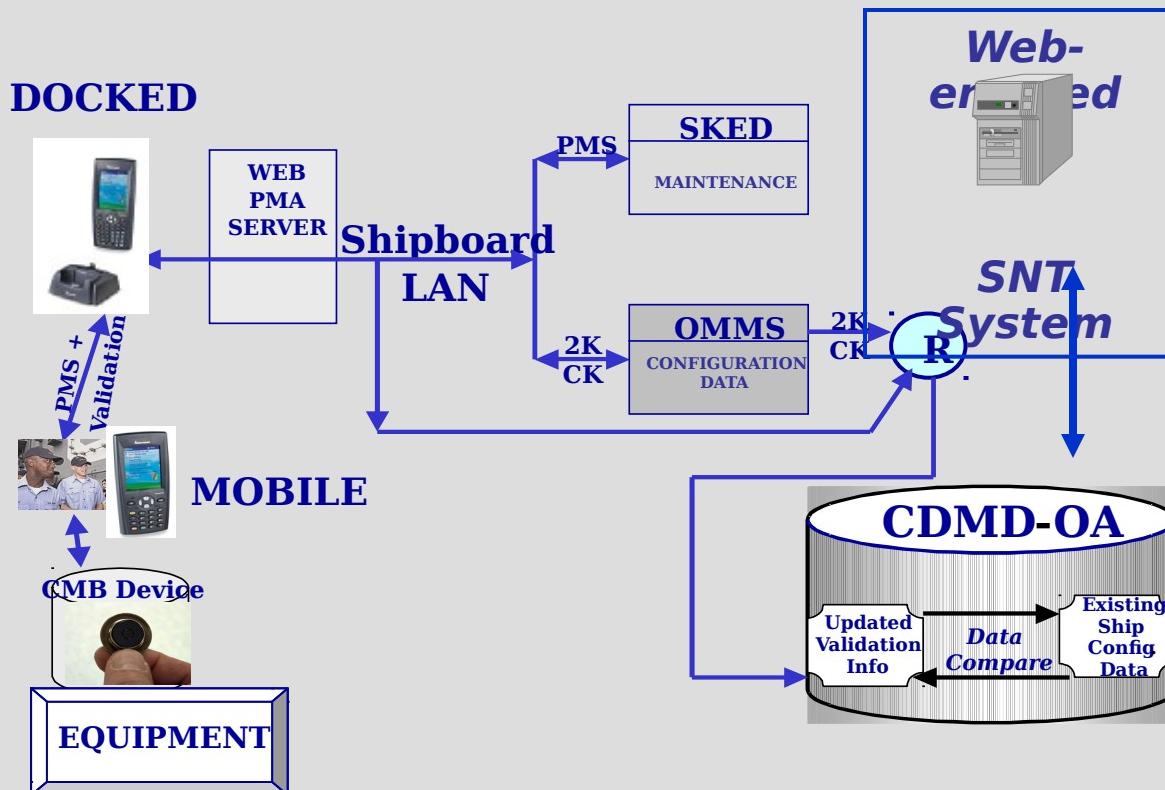
CMB

CAGE: 23456
 PN: 33489-12
 NSN: 5835-01-141-5888
 S/N: 45367
 Cont: N00383-02-G010N-0017
 Name: Main Rotor Blade

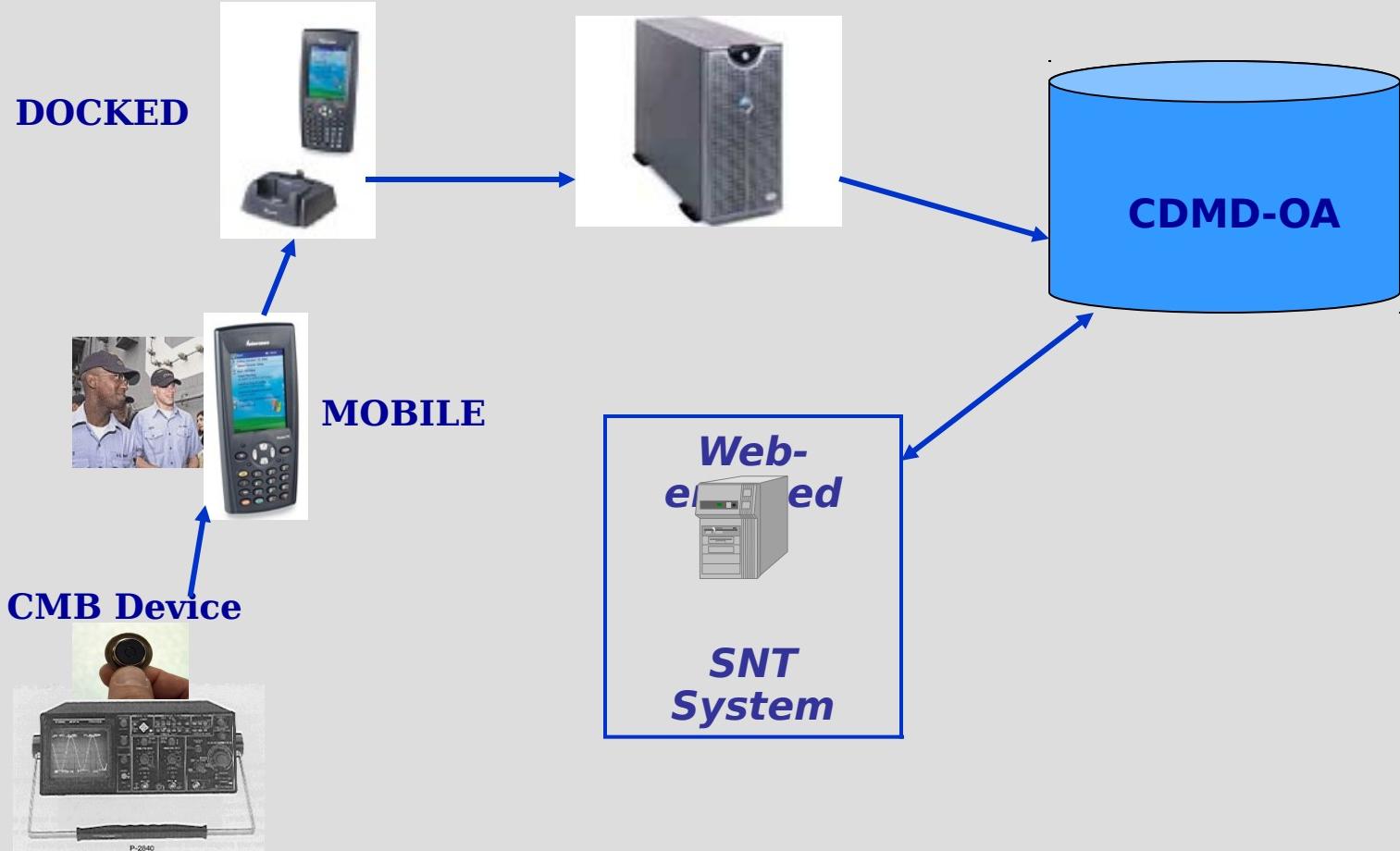
 												1. TOTAL PRICE	2. SHIP FROM DDSP SUQUENNA NEW YORK		3. SHIP TO W25G1U						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.		
DOC IDENT	RI FROM	M	UNIT ISS	QUANTITY	SUPPLI-	IS	F	DIS-	PRO-	P	R	RECD	A	RI	O	CMG	UNIT PRICE	DOLLARS	CTS	2. SHIP FROM DDSP SUQUENNA NEW YORK	3. SHIP TO W25G1U
PR00001	AA2				MENTARY ADDRESS	G	J	B	J	03261	S9TAA	03261	D	V	ID	DOLLARS	CTS	2. SHIP FROM DDSP SUQUENNA NEW YORK	3. SHIP TO W25G1U		
5. DOC DATE 6. NMFC 7. FRT RATE 8. TYPE CARGO 9. PS												03259	028160	70229 Z	U						
10. QTY RECD 11. UP 12. UNIT WEIGHT 13. UNIT CUBE 14. UFC 15. SL												00006	0000004.50	0000.518	13430	0					
16. FREIGHT CLASSIFICATION: AUTOMOTIVE PLATE																					
Create IRRD with Serial Number																					

3/9 and 2D Barcode

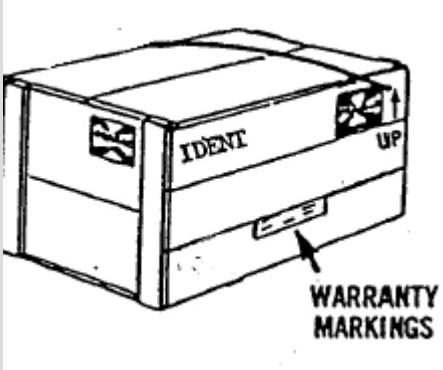
Configuration Mgt Effort (Notional)



Calibration (Notional)



MIL-STD-129P CH2



**WARRANTED ITEM
WARRANTY EXPIRES
AFTER 1000 HOURS
OF OPERATION**

**WARRANTED ITEM
WARRANTY EXPIRES
1 JANUARY 2003**

MIL-STD 130L



**WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL (NOTE 1) NOTE 3**

**WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL (NOTE 2)
HAS BEEN COMPLETED
NOTE 3**

Note 1 – Indicates expiration Date

Note 2 – Indicates of use (Hours of Ops)

Note 3 - Examples provided as Guide (Not Mandatory)



WEB-CAV Warranty Information



Warranty info

CAV v5.0 - Add Warranty Serial Nr - Microsoft Internet Explorer

DAN'S FIX-IT SHOPPER(W22999)

Add Warranty Serial Nr

Add Successful!

Part Number	CAGE	Serial Number
ZXCVBNM	12345 A1-B2-C3-D4	

Serial Nr: A1-B2-C3-D4
 Contract Nr: N001204004000011
 NFF: 4
 Ord'd Cycle Time: 0007
 Warranty Start Dt: 0-1-2004
 Remarks:

Model Nr: 441-7441	Lot Nr: 4067A
Ord'ed NFF: 4100	Actual NFF: 4150
Ord'ed MTBR: 365	Actual MTBR: 540
Actual Cycle Time: 0007	Delivery Dt: 0-1-04
Warranty Stop Dt: 2-28-2005	Manufacture Dt: 11-15-02
Expiration Dt: 12-31-20	Award Dt: 1-15-04

Submit Reset

Change Part Numbers Warranty Menu Contact Us Help

CAV Report - Warranty Report - Microsoft Internet Explorer

Items Listed Are All Warranty Entries

Actual Pages Shown Click to Print Filter Criteria Warranty Menu Main Menu

WARRANTY REPORT

FEBRUARY 18, 2004

Part Number: ZXCVBNM	FSC: 1234
Item Nomenclature: HAMMER	NIN: 0002344756
Vendor Name: JOE'S TOOLS	SMIC: SM
CAGE: 12345	

Serial Number Warranty Information

Serial Number: A1-B2-C3-D4	Manufacture Dt: 11/15/2003
Contract Nr: N001204004000011	Delivery Dt: 02/19/2004
Model Number: MOL-747	Warranty Start Dt: 03/01/2004
Lot Number: 4067A	Warranty Stop Dt: 02/28/2005
Guaranteed MTBR: 365	Award Dt: 01/15/2004
Actual MTBR: 540	Expiration Dt: 12/31/2020
Guaranteed NFF: 4100	Guaranteed Cycle Time: 7
Actual NFF: 4150	Actual Cycle Time: 7
NFF: 4	
Remarks:	

This report may be sorted in the following order:
 First: PART NUMBER Second: CAGE Third: SERIAL NUMBER

Sort

This report may be filtered where:
 Column: Operator: Value:
 [PART NUMBER] = [CAGE]

CAV v5.0 - Update Warranty Serial Nr - Microsoft Internet Explorer

DAN'S FIX-IT SHOPPER(W22999)

Update Warranty Serial Nr

NAVICP-M(N00104)

Part Nr: ZXCVBNM CAGE: 12345

Serial Nr: A1-B2-C3-D4
 Contract Nr: N001204004000011
 NFF: 4
 Ord'd Cycle Time: 0007
 Warranty Start Dt: 0-1-04
 Remarks:

Model Nr: 441-7441	Lot Nr: 4067A
Ord'ed NFF: 4100	Actual NFF: 4150
Ord'ed MTBR: 365	Actual MTBR: 540
Actual Cycle Time: 0007	Delivery Dt: 0-1-04
Warranty Stop Dt: 02/28/05	Manufacture Dt: 11-15-02
Expiration Dt: 12-31-04	Award Dt: 01-15-04

Submit Reset

Warranty Menu Contact Us Help

CAV v5.0 - Receive Update - Microsoft Internet Explorer

Receive Update

NAVICP-M(N00104)

Receipt Successful. Don't click the Back button. To continue, click a link below...

[Receipt Menu](#) - to report another Receipt
[Item Maintenance](#) - to update a Reference/Serial Nr

You received 3 items(s):

	RCDN	Reference Nr	Serial Nr
1	W2299940499910		A-B-C-D
2	W2299940499911		A1-B2-C3-D4 **
3	W2299940499912		1-2-3-4

** - Indicates Warranty match on NIIN and Serial Number

Print MMF Print Labels

Main Menu Contact Us Help



SNT Homepage



Web Page

SNT HomePage - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://www.snt.navsup.navy.mil/default.shtml

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://www.snt.navsup.navy.mil/default.shtml

UNITED STATES NAVY SERIAL NUMBER TRACKING

SNT

Beginning 01 APRIL 2004, all users of the SNT web site must possess a valid DOD PKI Certificate. More information is available by opening the Documents or What's New links on the left side of the SNT homepage.

SNTS LOGIN

Documents

Registration

Other Links

Contact Us

Calendar

What's New

FAQ

Home

READ THIS:
DoD Security Notice

Welcome to the US Navy Serial Number Tracking System

This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.

This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.

The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.

This site has had 28024 hits.

www.snt.navsup.navy.mil



Warranty



NAVAL SUPPLY SYSTEMS
COMMAND

Warranty Info

SNTS \ Warranty \ Under Warranty - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Back Search Favorites History

Address https://www.snt.navsup.navy.mil/queries/Warranty/UnderWarranty/default.shtml

Go Links

UNITED STATES NAVY SERIAL NUMBER
SNT TRACKING

Warranty Information

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | **Warranty**

Search Criteria

CAGE Code:

Serial Number:

Part Number: 096-0100-01

NIIN:

Contract Number:

[<< Back to Warranty](#)

[Submit a Batch Query](#)

Results

Warranty Information

Sort: <NONE> Ascending Sort

[Export to Microsoft® Excel®](#)

[Printer Friendly Version](#)

	Serial Number	Part Number	NIIN	Contract Number	CAGE Code	CAGE Name
1	101	096-0100	014685544	N0010400DG001	99488	LISSNER JAY G
2	102	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
3	103	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
4	104	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
5	105	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
6	106	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
7	107	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
8	108	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
9	109	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
10	110	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
	Serial Number	Part Number	NIIN	Contract Number	CAGE Code	CAGE Name
11	111	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
12	112	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
13	113	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G
14	114	096-0100-01	014685544	N0010400DG001	99488	LISSNER JAY G

https://www.snt.navsup.navy.mil/queries/Warranty/UnderWarranty/results_contract_dd.shtml?drill_down=1&query_state=-128989475581

Internet

Start FLSIC FEB 2004 SNTS \ Warranty \ Un...



Warranty



NAVAL SUPPLY SYSTEMS
COMMAND

Warranty Info

SNTS \ Warranty \ Under Warranty - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Back Search Favorites History

Address https://www.snt.navsup.navy.mil/queries/Warranty/UnderWarranty/default.shtml

Go Links



Warranty Information

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out

| Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty

Search Criteria

CAGE Code:

Serial Number:

Part Number: 096-0100-01

NIIN:

Contract Number:

[<< Back to Warranty](#)

[Submit a Batch Query](#)

Results

Warranty Information > Warranty Contract Detail

Sort: <NONE> Ascending Sort

[Export to Microsoft® Excel®](#)

[Printer Friendly Version](#)

Contract Officer	Warranty Start Date	Warranty Stop Date	Guaranteed MTBR	Guaranteed NFF	Guaranteed Cycle Time
1	02 Oct 2000	02 Jan 2002			

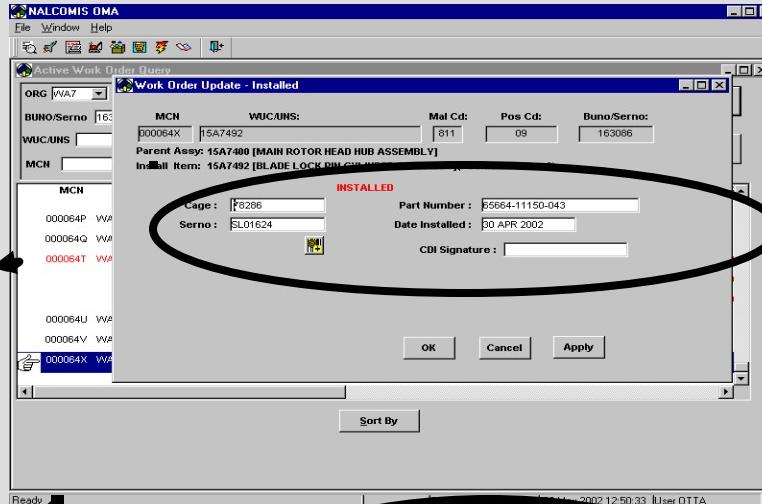
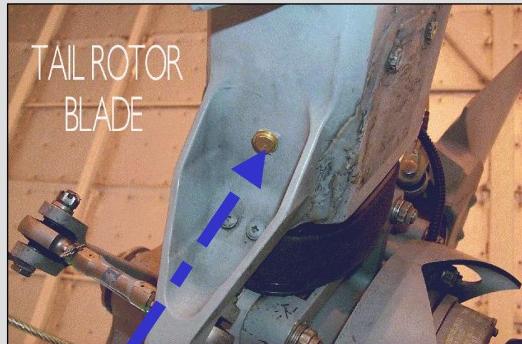
Records 1 - 1 of 1 Total Records.

Page 1 of 1

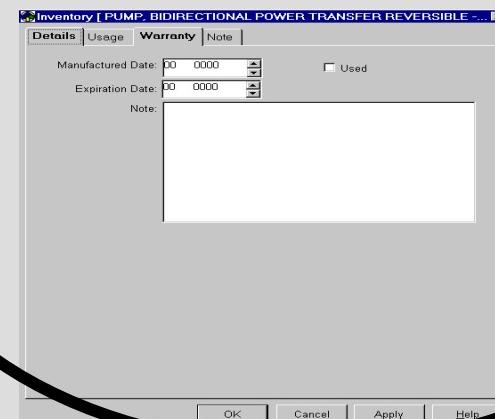
Page: 1

AIT Maintenance Data Collection(OOMA)

What's Planned



Future Capability within OOMA





SNT Follows DoD Policy



DoD Policy

DoD Policy/Directives:

Mar 98 - Super Reg - Unique Item Identification (UII)

Sep 02 - SIM Initiative - CAGE, P/N, S/N

Jul 03 - USD - A,T & L Letter - Marking UID of Tangible Items Dated 7/29/03

Oct 03 - USD - A,T & L Letter - RFID Dated - 10/02/03

Nov 03 - DoD Guide to UID Items - EIN, P/N, S/N

Nov 03 - Update of Policy UID Transactions Dated - 11/26/03

Dec 03 - Migration to DLMS Dated - 12/22/03

Dec 03 - Revision to UID Policy Dated - 12/22/03

Common Link:

ANSI MH10 Data Syntax and Semantics **17V-EIN, S-S/N, 1P-P/N**

[>^R_s06^G_s**17V35421^G_s10936^G_s1P420Y2435^E_T**]



Maintenance

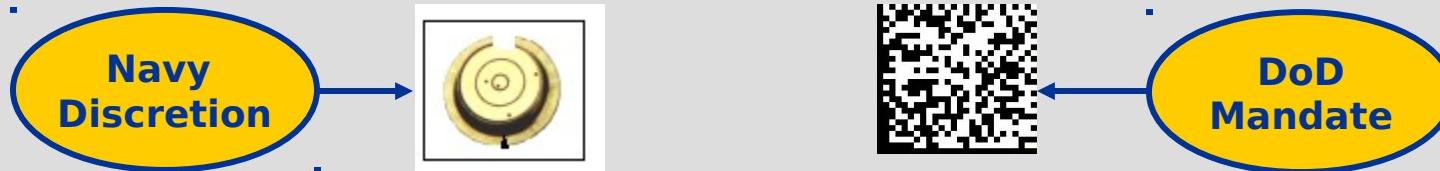
Supply / Transportation



Future Part Marking Requirement- Warranty



UID



TODAY'S DoD UID REQUIREMENT

ANSI MH10 Data Syntax and Semantics **17V-EIN, S-S/N, 1P-P/N**

[>^R.06^G.17V35421^G.S10936^G.1P420Y2435^{Eo}.

DoD UID REQUIREMENT WITH WARRANTY

ANSI MH10 Data Syntax and Semantics - **6D- Warranty**

**[>^R_s06^G_s17V35421^G_sS10936^G_s1P420Y2435^G_s
6D20040415090^G_s6D20060414091^{Eo_T}**

**Warranty Start Date
Date = 4/15/2004
Start = 090**

**Warranty Stop Date
Date = 4/14/2006
Start = 091**